

BARBER-GREENE 705B

1. TYPE OF MACHINE.

Excavator, trench; pneumatic tyre mounted, bucket line.

2. GROUP CLASSIFICATION.

Classification H.T.B.



FIG. 1.

MAKE AND MODEL.

Barber-Greene Model 705B Runabout Ditcher.

4. DIGGING RANGE.

Width of Trench.	$5\frac{1}{2}"$	$7\frac{1}{2}"$	$10\frac{1}{2}"$
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Depth of Trench.	4'	4'	4'
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Minimum distance from centre line of trench to fence line 3'3".

5. DISPOSAL OF SPOIL.

Endless belt conveyor, with direction of travel reversible to deliver to either side of machine as conditions dictate. Spoil conveyor manually shifted from side to side. Maximum distance from centre line of trench to end of conveyor approximately 2'6". Three conveyor belt speeds - 250, 430 and 760 feet/min.

6. MOVEMENT BETWEEN JOBS.

This machine can travel reasonable distances along roads at a maximum speed of 16 m.p.h..

7. DIMENSIONS.

		<u>Operating</u>	<u>Travelling</u>
Overall Height		8'1"	9'2"
Overall Length	Without Backfill Blade	17'5"	16'8"
	With Backfill Blade	20'5"	19'8"
Overall Width		6'0"	6'0"
Weight (Approx.)	Without Backfill Blade	9,400 lbs.	
	With Backfill Blade	10,200 lbs.	

8. METHOD OF DIGGING.

Bucket line with vertical boom. Open side buckets with renewable teeth attached to an endless chain. Three bucket line speeds - independent of crowd speeds - are provided for digging:-

Low (for rocky soils)	355 ft./min.
Second (normal soils)	644 ft./min.
Third (clearing and muddy soils)	1010 ft./min.

Crumber bar scrapes bottom of trench.

9. CONTROL OF DIGGING SPEED.

Digging (crowd) speed is infinitely variable from 0 to 16 ft. per minute through "hydra-crowd" drive.

10. TRAVELLING SPEED.

Forward - 4, 7, 11 and 16 m.p.h.

Reverse - 2 m.p.h.

11. METHOD OF RAISING DIGGING BOOM.

Hydraulic ram and steel wire ropes.

12. OPERATOR CONTROL.

Controls grouped in left side of cab for operation either from within cab or from ground along side.

13. ENGINE.

Water-cooled petrol.

END.